

Notice of Allowability

Application No.

09/806,090

Examiner

N. Bhat

Applicant(s)

SEKIYA, KUNIO

Art Unit

1764

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the letter (Amendment) 3-26-2001 and DS.
2. ☒ The allowed claim(s) is/are 1-7.
3. ☒ The drawings filed on 26 March 2001 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☒ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 3-26-01
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


NINA BHAT
PRIMARY EXAMINER
GROUP 1300 1764

DETAILED ACTION

1. The following is an examiner's statement of reasons for allowance:

The invention relates to a method of preventing contamination of the surface of a drum dryer used in a paper machine. The method of prevent surface contamination of a drum dryer includes applying a predetermined amount of a surface forming agent which contains synthetic resin powders as the main constituent thereof, and oil is continuously supplied to the surface of the drum dryer in rotation, facing a paper strip, while the paper strip is being fed by the paper machine in operation. In an alternative method, the surface forming agent contains a predetermined amount of synthetic resin powders as the main constituent thereof, and a surfactant and oil which is continuously supplied to the surface of the drum dryer in rotation, facing a paper strip, while the paper strip is being fed by the paper machine in operation. The application of the predetermined amount of surface forming agent which contains the mainly resin powder and oil onto the surface of the drum dryer fills the microscopic asperities on the surface of the dryer so that the surface of the drum dryer is smooth thus preventing contamination of the dryer surface. The method as claimed has not been taught nor fairly suggested either singularly or in combination by the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Archer et al. teaches using an admixture of PAE resins, which are applied to the creping surface in the process for dry creeping tissue or a towel paper. Ampulski teaches a process for applying a thin film containing low levels of a polysiloxane and a mineral oil to tissue

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paper. The polysiloxane and mineral oils functions as softener compounds, which added to the dry web. Ampulski does not teach or suggest a method of preventing contamination of a drum dryer surface as claimed in the instant invention. Sekiya et al.'901 teach a method of improving the adhesiveness of the paper body to the surface of a cylindrical Yankee dryer to make a high grade crepe form, which includes wherein a crepe assistant of molybdenum disulfide is fed continuously onto the surface of the cylindrical Yankee dryer while the paper body P is continuously fed to the cylindrical Yankee dryer, there is no suggestion or recognition in Sekiya et al. to prevent contamination of the drum dryer surface by applying a resin powder to the drum surface to prevent contamination. The molybdenum disulfide is a crepe assistant and acts as a lubricant and further includes adhesive and mold release agents. EP 1124005 teaches a pollution prevention method of canvas used in the paper machine in this method, Sekiya teaches preventing fouling of the canvas used in paper making and specifically to prevent clogging of the eyes of the canvas which diminishes air permeability resulting in poor drying of the paper. The method of preventing fouling or contamination of the canvas is performed by spraying the canvas with silicone oil. EP 1124005 does not teach and/or suggest applying a resin powder having a specific particle size, oil, and/or surfactant to the surface of a drum dryer as claimed. JP 07292591 teaches a method for preventing damage of a surface dryer papermaking machine by sprinkling the surface with a water-soluble lubricating oil in an atomized state. JP 07292591 does not teach or suggest adding a resin powder as claimed in the instant invention. JP2000-345489 teaches a method preventing sticking of a paper to a roll surfaces and both abrasion and fouling are preventing by using a wax, which is sprayed onto a press roll. JP2000-345489 does not teach or suggest adding a resin powder, oil and/or surfactant, which is applied to the surface of a drum dryer to prevent pollution or contamination of the dryer surface.

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3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to N. Bhat whose telephone number is 571-272-1397. The examiner can normally be reached on Monday-Friday, 9:30AM-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Caldarola can be reached on 571-272-1444. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



N. Bhat
Primary Examiner
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